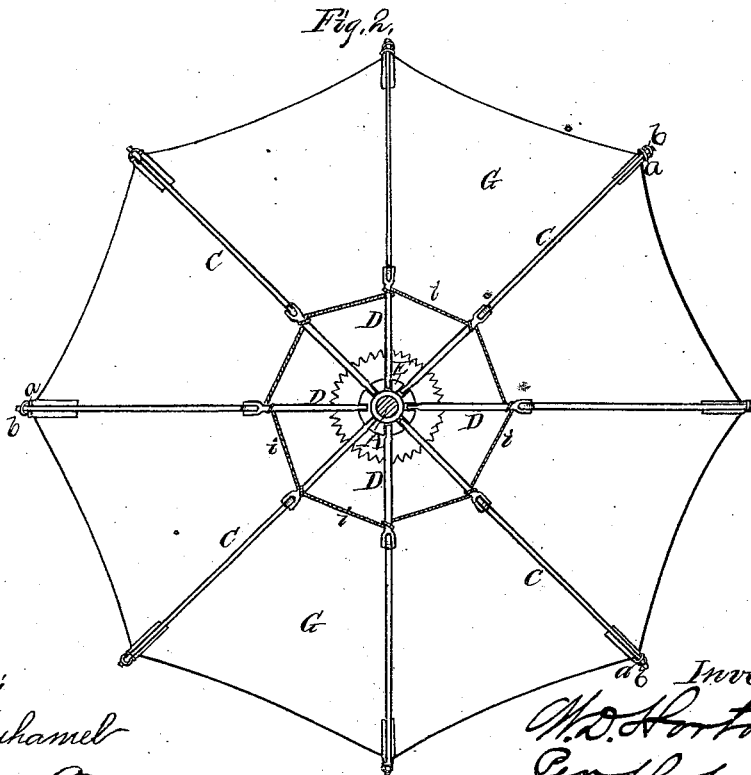
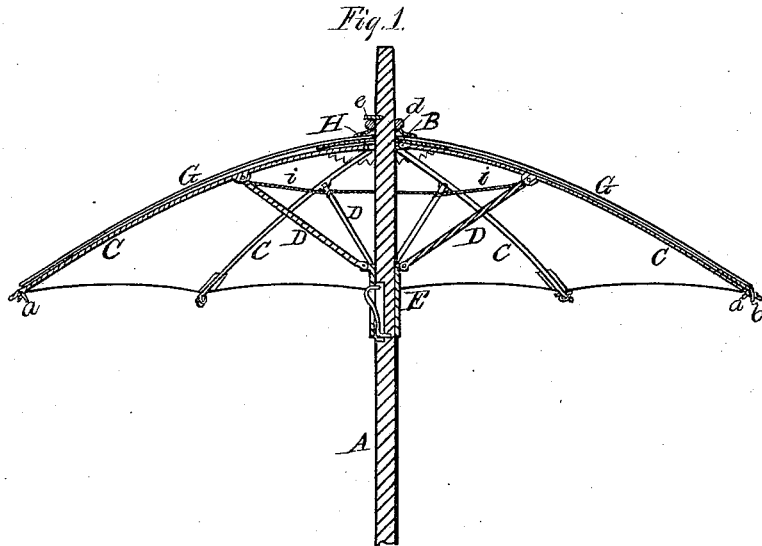


W. D. HORTON.  
Umbrella.

No. 161,962.

Patented April 13, 1875.



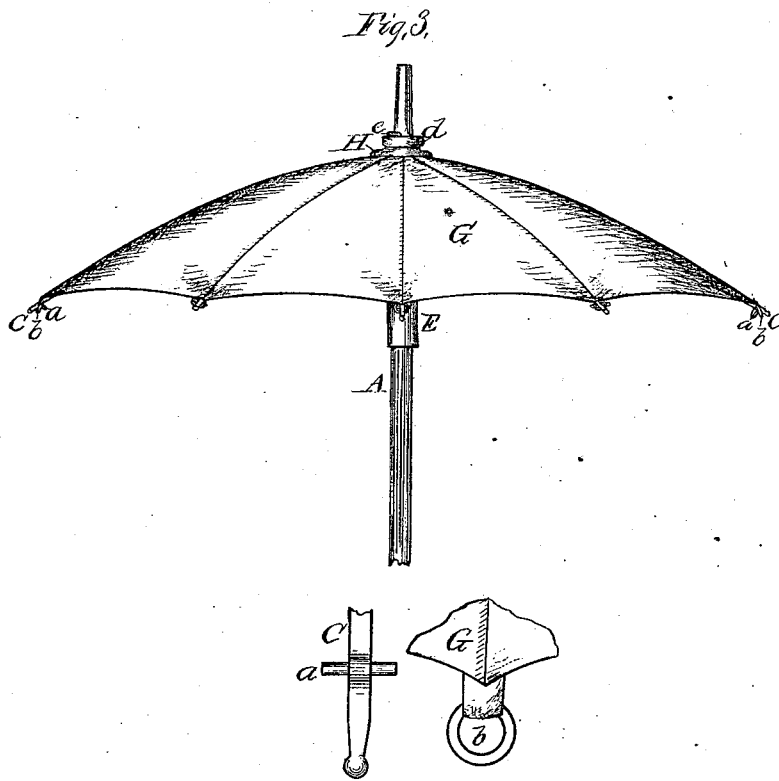
Witnesses;  
Jas. F. Duhamel  
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Thomas Byrne.

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Per H. C. Abbott,  
Attorney.

# UNITED STATES PATENT OFFICE.

WILLIAM D. HORTON, OF NASHVILLE, TENNESSEE.

## IMPROVEMENT IN UMBRELLAS.

Specification forming part of Letters Patent No. **161,962**, dated April 13, 1875; application filed February 25, 1875.

*To all whom it may concern:*

Be it known that I, WILLIAM D. HORTON, of Nashville, county of Davidson and State of Tennessee, have invented certain new and useful Improvements in Umbrellas, of which the following is a specification:

The nature of my invention consists in the construction and arrangement of an umbrella or parasol, so that the cover can be easily and quickly removed from the frame when desired, and also the frame be more thoroughly braced, all as hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, which forms a part of the specification, and in which—

Figure 1 is a longitudinal section of an umbrella embodying my invention. Fig. 2 is a bottom view of the same. Fig. 3 is a side view of the upper end thereof.

A represents the rod or handle of an umbrella. B is the collar in or to which the ribs C C are hinged or pivoted, and said ribs connected by the braces D D to the sliding sleeve E. These parts are all constructed in any of the known and usual ways, and form the frame of the umbrella. G represents the cover, which may be made of any desired material, and is sewed in the ordinary manner, so as to have a seam along each rib C when it is placed on the frame.

The cover is attached to the frame in the following manner: Near the outer end of each rib C is a pin or ring, *a*, passed through it, and at the end of each seam in the cover G is fastened a ring, *b*, by means of a tape, or its equivalent, sewed to the cover at the seam. The upper end of the rod A is passed through the center hole in the cover G, after which the rings *b* are slipped over the ends of the ribs

C, the cover being of such size that said rings cannot come off without stretching the cover or slightly bending the ribs. When the umbrella is spread out or opened, the pins or rings *a* in the ribs act as stops for the rings *b* in the cover, and hold the cover stretched properly. The center of the cover is then protected by means of the usual flanged top or cap H slipped over the end of the rod A, and on top of said cap is placed a rubber ring or collar, *d*, which is held by means of one or more pins, *e*, inserted in or passed through the rod. The rubber ring gives a sort of spring-pressure on top of the cover, instead of the rigid fastening usually employed, thereby allowing the cover a comparatively free and easy movement in the center to prevent it from tearing. The ribs C C are connected by means of cords *i*, at or near the points where the braces D are attached thereto, whereby the frame is more strongly braced and steadied. This is specially of advantage in large frames, but may be used in umbrellas of any size.

It will readily be seen that the cover G can be easily removed, when, for any purpose, this should be desired, and also easily replaced or another substituted.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The combination, with an umbrella frame and cover, of the top or cap H, and rubber collar *d*, arranged to operate substantially as described, to give a yielding pressure on the center of the cover for the purposes herein set forth.

In testimony that I claim the foregoing as my invention I hereunto affix my signature this 16th day of February, 1875.

WILLIAM DIXON HORTON.

Witnesses:

J. C. WHARTON,  
W. G. EWING.